

**Notice of Allowability**

Application No.

10/540,182

Examiner

Jasmine J. Clark

Applicant(s)

ROTARU ET AL.

Art Unit

2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/26/7.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 6/26/7
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**JASMINE CLARK  
PRIMARY EXAMINER**

*Jasmine Clark*

***Information Disclosure Statement***

1. The IDS filed 6/26/7 has been considered.

***Reference Cited***

2. Hayasi (US 6,706,967 B2) shows a semiconductor device comprising at least one semiconductor element 20 having a first and an opposed, second side, which at least one semiconductor element is provided with a first pad 21 and a second pad 22. In Fig. 2A, 134, 144, and 124 can be read as first, second and third pads, whereas said first and second pads are provided with a first and second side face, and said contact pad is provided with a first side face, said first side faces of said first and second contact pads 134 and 144 are facing said first side face of said third contact pad 124 and are separated by a spacing. However, Hayasi '967 fails to disclose that said first, second and third contact pads 134, 144, and 124 are provided on said semiconductor element 20; and further fails to disclose the followings: said first side faces of said first and second contact pads 134 and 144 are separated by a spacing that is continuous along said first side faces, and said second side faces of said first and second contact pads are facing each other and comprises a first part and a second part, the first part located nearer to the first side face than the second part, and whereas said first parts of said second side faces of said first and second contact pads are at a mutual distance that is smaller than the distance between said parts of these side parts. Regarding three or more contact pads, please see Yoshiki (JP 6-84915) and Fig. 2 of Nakashugi (JP 3-205853).

***Field of Search***

3. This application was searched and searched in class 257, subclasses 664-665, 672, 678, 690, 727, 734-786, e21.508, e21.509, e21.519, e21.135-e21.21, e21.627, e21.641, e23.01-e23.079, e23.141-e23.179, e29.111-e29.165; class 438, subclasses 612-617, 571, 597, 666, in view of the limitations of the claimed invention. The re-search was ineffective.

***Allowable Subject Matter***

4. Claims 1-10 are allowed.

The following is an examiner's statement of reasons for allowance: please see paragraph 2 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Telephone Inquiry Contacts***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jasmine J. Clark whose telephone number is (571) 272-1726. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jjbc/7/30/7

**JASMINE CLARK  
PRIMARY EXAMINER**

A handwritten signature in cursive script, appearing to read 'Jasmine Clark', is written below the printed name and title.